Dynamics of Atmospheres and Oceans, 14 (1990) 577–578
Elsevier Science Publishers B.V., Amsterdam

Contents

Volume 14, 1989–1990

Research Papers
Stability of baratropic zonal flow in the presence of zonally uniform bottom topography
G.M. Zhikharev (Moscow, U.S.S.R.) 1
The effect of variable currents on internal solitary waves
X. Zhou (Beijing, People's Republic of China) and R. Grimshaw (Kensington, N.S.W., Australia) 17
Scattering of Rossby and Pioncaré waves off rough lateral boundaries
A.A. Fernandes, Y.S. Prahalad and D. Sengupta (Goa, India) 41
A note on consistent quasi-geostrophic boundary conditions in partially open, simply and multiply connected domains
N. Pinardi and R.F. Milliff (Cambridge, MA, U.S.A.) 65
Seasonal oceanic heat transports computed from an atmospheric model and ocean temperature climatology
T.M. Smith, J.R. Miller (New Brunswisk, NJ, U.S.A.) and G.L. Russell (New York, NY, U.S.A.) 77
On the velocity field associated with potential vorticity
C. Staquet and J.J. Riley (Seattle, WA, U.S.A.) 93
Regional primitive equation modeling and analysis of the polymode data set
M.A. Spall (Cambridge, MA, U.S.A.) 125
Guide for Authors 175

Research Papers
Surface opposing-wave interaction over a periodically corrugated bed
K.I. Voliak (Moscow, U.S.S.R.) and R. Purini (Rome, Italy) 179
On the non-linear Munk model. II: Stability
B. Moro (Princeton, NJ, U.S.A.) 203
The modelling of the flow of water through the Bosphorus
B. Johns (Reading, Gt. Britain) and T. Oguz (Icel, Turkey) 229
A divergent quasi-geostrophic model for wind-driven oceanic fluctuations in a closed basin
S. Pierini (Cambridge, MA, U.S.A.) 259

Research Papers
An investigation of the Gates asynchronous coupling strategy using a simple energy-balance model
D.L. Roberts (Bracknell, Gt. Britain) 279
An accurate hyperbolic system for approximately hydrostatic and incompressible oceanographic flows
G.L. Browning, W.R. Holland, S.J. Worley (Boulder, CO, U.S.A.) and H.-O. Kreiss (Los Angeles, CA, U.S.A.) 303
Vortices in shear
S.P. Meacham, G.R. Flierl (Cambridge, MA, U.S.A.) and U. Send (La Jolla, CA, U.S.A.) 333
Quasi-geostrophic oceanic adjustment in the presence of mean currents
P. Chang and S.G.H. Philander (Princeton, NJ, U.S.A.) 387
Errata 415

Research Paper
On the role of transients in trapping eastern boundary currents
R.L. Hughes (New Haven, CT, U.S.A.) 417

Special Section: Synoptic and Mesoscale Weather Disturbances Affecting Europe
Guest Editor: P.H. Stone

Preface 441

Research Papers
Clear-air radar observations of the great October storm of 1987
M. Crochet, F. Cuq (Toulon, France), F.M. Ralph and S.V. Venkateswaran (Los Angeles, CA, U.S.A.) 443
Semigeostrophic moist frontogenesis in a Lagrangian model
M.W. Holt (Bracknell, Gt. Britain) 463
A wave-like vortex in a cold air stream
J. Roodenburg (De Bilt, The Netherlands) 483

Research Papers
An experimental study of flow past a triangular cape in a linearly stratified fluid
P.A. Davies, P. Besley (Dundee, U.K.) and D.L. Boyer (Tempe, AZ, U.S.A.) 497
On the use of EOF analysis in dynamical model testing
I.T. Webster (Canberra, A.C.T., Australia) and S. Narayanan (St. John's, Nfld., Canada) 529
The interaction of time-dependent rotating and stratified flow with isolated topography
D.L. Boyer and X. Zhang (Tempe, AZ, U.S.A.) 543

Contents of Volume 14 577